

Central Valley Regional Water Quality Control Board

25 October 2012

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REVISED NOTICE OF APPLICABILITY; GENERAL WASTE DISCHARGE REQUIREMENTS FOR COLD WATER CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY DISCHARGES TO SURFACE WATERS; JACKSON VALLEY IRRIGATION DISTRICT AND FANBASSTIC INC., LAKE AMADOR FISH HATCHERY, AMADOR COUNTY

Our office received a Report of Waste Discharge dated 28 December 2005 and supplemental information dated 15 March 2006, 27 April 2006, and 14 February 2011, from Jackson Valley Irrigation District (District) and Fanbasstic Inc. for the Lake Amador Fish Hatchery (Facility). California Regional Water Quality Control Board, Central Valley Region (Central Valley Water Board) staff determined that the Facility met the required conditions for approval under General Order R5-2010-0018-01, the General Waste Discharge Requirements for Cold Water Concentrated Aquatic Animal Production Facility Discharges to Surface Waters (CAAP General Order). On 10 March 2011, the Facility was issued a Notice of Applicability (NOA) and was assigned CAAP General Order R5-2010-0018-016 and National Pollutant Discharge Elimination System (NPDES) Permit No. CAG135001.

By letter dated 12 July 2012, the District requested revisions to the Monitoring Requirement Section of the NOA. The March 2011 NOA required effluent monitoring at two different existing discharge locations. Based on the information provided by the District it was determined that monitoring at only one existing discharge location, identified as EFF-001 is necessary to adequately characterize the discharge; therefore the NOA has been modified to remove required effluent monitoring at location EFF-002. This revised NOA supersedes the previously issued NOA dated 10 March 2011. Administrative information for the Facility is provided in Enclosure A, and a location map is provided in Enclosure B, which are included as part of this revised NOA. Please reference your CAAP General Order **R5-2010-0018-016**, in all your correspondence and submitted documents.

The CAAP General Order is enclosed and may also be viewed at the following web address:
http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2010-0018.pdf

You are urged to re-familiarize yourself with the contents of the entire CAAP General Order. The CAAP facility operations and discharge shall be managed in accordance with the requirements contained in the CAAP General Order, this revised NOA, and with the information submitted by the District. Attachment C of the CAAP General Order prescribes mandatory monitoring and reporting requirements.

FACILITY INFORMATION/DISCHARGE DESCRIPTION

The Facility is located at 7500 Lake Amador Drive, downstream of Lake Amador on Assessor's Parcel Number 012-005-020, as shown in Enclosure B, a part of this NOA. The property is owned by the District and the Facility is owned and operated by Fanbasstic Inc. The Facility consists of the following:

- twenty 50 gallon egg and fry tanks that can accommodate up to a maximum production of 100,000 fish per year;
- twenty-four 2,000 gallon rectangular rearing tanks with a capacity to accommodate up to a maximum of 24,000 pounds (lbs) of fish at any given time;
- four 55,000 gallon octagonal rearing tanks and two 40,000 gallon Brood stock tanks, which can accommodate up to 20,000 lbs and 10,000 lbs of fish, respectively; and
- one 750,000 gallon rearing pond that can accommodate up to a maximum of 40,000 lbs of fish with no additional oxygen added.

All rearing tanks, ponds, settling areas, area capacities and measurements are listed in the Facility Schematic, Enclosure C, a part of this revised NOA. Each octagonal tank has a sweep arm for collecting bottom solids. All other tanks are cleaned manually. Based on supplemental information dated 14 February 2011, the Facility has an annual production of 140,000 lbs of cold water species (hybrid rainbow trout).

The Facility receives its source water from Lake Amador delivered through the District's main pipelines. The Facility injects liquid oxygen into the water at a concentration of 15-40 mg/L. The high concentration of oxygen allows for the conversion of ammonia to nitrates and limits the production of algae. The Facility has a maximum flow rate of 1.73 million gallons per day (mgd) of flow-through water. The solids from the four octagons, two brood stock tanks, and 24 rectangular tanks are discharged to settling ponds #1 and #2 as shown in Enclosure C. After settling, the wastewater is discharged to a 750,000 gallon rearing pond, which discharges to eight 2,000 gallon heavy solid settling tanks. After settling the heavy solids, the wastewater is discharged to settling pond #3. From settling pond #3, the wastewater is discharged at Discharge Point 001, approximate Latitude 38°18'12"N and Longitude 120°53'26"W. The discharge is to a shale stilling basin that is an extension of Jackson Creek that receives overflow from the dam during wet weather and is a continuously maintained wetlands area resulting from the hatchery discharge.

Wastewater from the shale stilling basin flows to Jackson Creek through a pair of concrete drainage canals beneath the main entrance bridge to Lake Amador at approximate Latitude 38°18'13.13"N and Longitude 120°53'41.38"W. Effluent samples are collected upstream of the shale stilling basin at EFF-001. Jackson Creek is in the Sutter Creek Hydrologic Area (532.40) of the Middle Sierra Hydrologic Unit (532.00) of the San Joaquin Hydrologic Basin. Jackson Creek flows into Dry Creek within the Herald Hydrologic Subarea (531.11) of the Lower Cosumnes-Dry Creek Hydrologic Area (531.10) of the North Valley Floor Hydrologic Unit (531.00) of the

San Joaquin Hydrologic Basin. Dry Creek flows into the Mokelumne River within the San Joaquin Delta Hydrologic Unit (544.00) of the San Joaquin Hydrologic Basin.

The Discharger reports use of sodium chloride (salt), formalin, and occasionally copper sulfate to treat the fish. Salt, when used, is primarily for small fish under 6 inches and normally no more than 25 lbs of salt is discharged every other day for four months per year. Formalin is primarily used on larger fish in the winter months only. Copper sulfate may also be used occasionally. Additional chemicals, antibiotics and other therapeutic drugs listed in the General Order may be used during periods of disease outbreaks.

MONITORING REQUIREMENTS

The CAAP General Order requires that dischargers comply with the Monitoring and Reporting Program that is incorporated as Attachment C to the CAAP General Order. Influent, effluent, and receiving water monitoring requirements are based on the pounds of fish produced. This Facility is in the category of production of more than 100,000 pounds of fish produced per year.

Site-specific monitoring locations for influent, effluent and receiving water monitoring are shown in Enclosure C to this NOA (Flow Schematic), and as described in the following table:

Monitoring Location Descriptions

Point Name	Monitoring Location Name	Monitoring Location Description
Influent	INF-001	At a location representative of influent water to the Facility from Lake Amador to the hatchery.
Discharge Point 001	EFF-001	At a location downstream of the settling pond # 3, prior to mixing with storm water overflow in the shale stilling basin (at Discharge Point 001).
Receiving Water Upstream	RSW-001	At a location in Jackson Creek 100 feet upstream of main entrance bridge to Lake Amador.
Receiving Water Downstream	RSW-002	At a location in Jackson Creek 100 feet downstream of main entrance bridge to Lake Amador.

The Discharger is required to comply with all the Monitoring and Reporting Requirements contained in Attachment C to the CAAP General Order for facilities with production greater than 100,000 pounds of fish per year. A summary of the monitoring requirements is provided below:

1. **Influent Monitoring** – The Discharger shall monitor the influent in accordance with Table C-2 of the CAAP General Order for total suspended solids, settleable solids, pH, electrical conductivity @25°C, copper (total recoverable), and hardness. For every influent sample taken an effluent sample must be taken simultaneously. In addition, influent flow shall be monitored continuously.
2. **Effluent Monitoring** – The Discharger shall monitor the effluent in accordance with Section IV.A, B, and Table C-4 (Effluent Monitoring Requirements) of the CAAP General Order for flow, total suspended solids, net total suspended solids, settleable solids, net settleable solids, turbidity, pH, electrical conductivity @25°C, copper (total recoverable), hardness, formaldehyde, and chlorine. For every effluent sample taken an influent sample must be taken simultaneously. In addition, effluent flow shall be monitored continuously.

3. **Receiving Water Monitoring** – The Discharger shall monitor the receiving water in accordance with Section VIII. B (receiving water observations) and Table C-6 of the CAAP General Order for dissolved oxygen, temperature, turbidity, pH, electrical conductivity @25°C, and hardness. Both upstream and downstream of receiving water monitoring is required in this NOA.
4. **Other Monitoring Requirements** – The Discharger shall submit a Monthly Drug and Chemical Use Report (Section IX.A) and conduct Priority Pollutant Metals Monitoring (Section IX.B) in accordance with the CAAP General Order.

NOTICE OF APPLICABILITY REQUIREMENTS

Based on the information provided in the ROWD, the Discharger is hereby authorized to discharge to Jackson Creek under the terms and conditions of the CAAP General Order. In addition to the requirements contained in the CAAP General Order, the following shall also apply:

1. The discharge from the Facility shall not exceed a daily average flow of 1.73 mgd during the effective period of the CAAP General Order.
2. The Discharger shall electronically submit Self-Monitoring Reports (SMRs) using the State Water Resources Control Board's California Integrated Water Quality System (CIWQS) Program website (<http://www.waterboards.ca.gov/ciwqs/index.html>). The CIWQS website will provide directions for SMR submittal in the event there will be service interruption for electronic submittal.
3. The State Water Resources Control Board (State Water Board) has determined that individual or general permits for aquaculture activities defined in 40 CFR 122.25(b) will be subject to the same annual fee, which currently is \$1,000 (State Water Board Resolution 2002-0150), but may be subject to change.
4. The CAAP General Order expires on **1 January 2015**, and enrollees will continue to be authorized to discharge until coverage becomes effective under a reissued Order or until Central Valley Water Board staff formally terminates your coverage. Only those CAAP facilities authorized to discharge and who submit a Notice of Intent at least **180 days** prior to the expiration date of the CAAP General Order will remain authorized to discharge under administratively continued permit conditions.

ENFORCEMENT

Failure to comply with the CAAP General Order and/or this revised NOA may result in enforcement actions, which could include administrative civil liability. Effluent limitation violations and some late reporting violations are subject to a Mandatory Minimum Penalty (MMP) of \$3,000 per violation [California Water Code Sections 13385(h) and (i)]. If you have no discharge during a monitoring period, you must submit a report indicating that no discharge occurred. You must notify the Central Valley Water Board staff within 24 hours of noncompliance or anticipated noncompliance.

COMMUNICATION

All monitoring reports submittals, notification of non-compliance, and questions regarding compliance and enforcement shall be directed to Mohammad Farhad of the Central Valley Water Board's NPDES Compliance and Enforcement Unit. Mr. Farhad can be reached at (916)-464-1181, or mfarhad@waterboards.ca.gov.

Questions regarding the permitting aspects of your CAAP General Order, and written notification for termination of coverage under the Order, shall be directed to Anand Mamidi at (916) 464-4853 or at amamidi@waterboards.ca.gov.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this NOA, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet or will be provided upon request. The Internet address is:

http://www.waterboards.ca.gov/public_notices/petitions/water_quality.

Pamela C. Creedon
Executive Officer

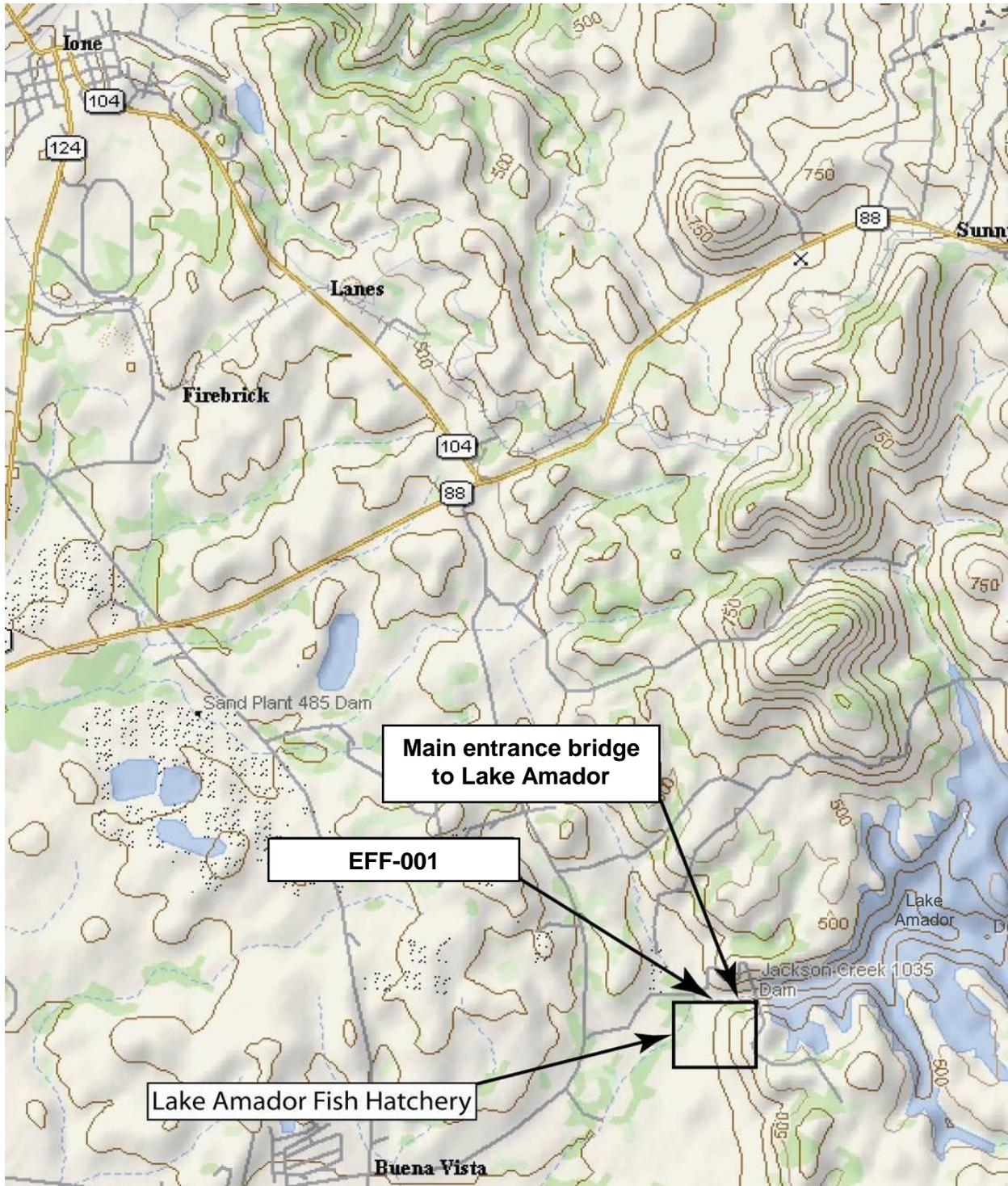
Enclosures (4): Enclosure A - Administrative Information
 Enclosure B – Location Map
 Enclosure C – Facility Flow Schematic
 CAAP General Order R5-2010-0018-01 (Discharger only)

cc: David Smith, U.S. EPA, Region IX, San Francisco
 Phil Isorena, State Water Resources Control Board, Sacramento

ENCLOSURE A – FACILITY ADMINISTRATIVE INFORMATION

Name of Facility	Lake Amador Fish Hatchery
Type of Facility	Cold Water Aquaculture Facility, SIC Code 0921
WDID	94-2747581
General Order NOA Enrollee Number	R5-2010-0018-016
Discharger	Fanbasstic Inc., (Facility Owner/Operator) and Jackson Valley Irrigation District (Site Owner)
Facility Address	7500 Lake Amador Drive Ione, CA 95640
Land Owner (Address)	Jackson Valley Irrigation District 6785 Lake Amador Drive Ione CA 95640 (Contact Person-Tom Hoover 209-274-2037)
Facility Contact, Title and Phone	Lee M. Lockhart, Fanbasstic Inc. 209-274-4739 or 209-217-6728 (cell)
Authorized Person to Sign and Submit Reports	Lee M. Lockhart
Mailing Address	7500 Lake Amador Drive Ione, CA 95640
Billing Address	7500 Lake Amador Drive Ione, CA 95640
Total Weight Produced (Annual)	140,000 lbs
Major or Minor Facility	Minor
Threat to Water Quality	2
Complexity	B
Facility Permitted Flow	1.73 mgd
Watershed	San Joaquin River Basin
Receiving Water	Jackson Creek, a tributary to Dry Creek, a tributary to the Mokelumne River
Receiving Water Type	Inland surface water

ENCLOSURE B – LOCATION MAP



ATTACHMENT C – FACILITY FLOW SCHEMATIC

